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Microporous polyolefin strips or film prodn - by forming strips from polyolefin, microfine silica filler and mineral oil, and extracting the oil with hot water followed by butyl glycol.

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Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
WO 9513316	A1	19950518	WO 94AT167	A	19941107	199525	B
AT 9302259	A	19950615	AT 932259	A	19931108	199529	
AT 400571	B	19951215	AT 932259	A	19931108	199605	

Priority Applications (Number Kind Date): AT 932259 A (19931108)

Cited Patents: EP 309136; GB 2027637

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
WO 9513316	A1	G	12	C08J-009/28	
Designated States (National): BG BR CA CN FI JP KR PL RU SI US					
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE					
AT 400571	B			C08J-009/28	Previous Publ. patent AT 9302259
AT 9302259	A			C08J-009/28	

Abstract:

WO 9513316 A

The prodn of microporous polyolefin strips or film comprises mixing high-mol wt polyolefin with inert filler (pref finely divided silicic acid) and mineral oil plasticiser, plastifying the mixt forming into strips, treating with hot water, pref by drawing over the surface of a hot water bath, and then extracting the plasticiser by known methods with glycol ether(s), pref butylglycol.

USE - Used for the prodn of microporous polyolefin strips or film for use as battery separators etc.

ADVANTAGE - Provides a hybrid process in which most of the plasticiser is extracted with hot water, leaving about 20% to be extracted with solvent, thus minimising recycling problems and costs associated with off-gas purification and solvent recovery.

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Dialog® File Number 351 Accession Number 10292792